

JAN 23 2004

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Tony Mai

Application No.: 10/647,664

Group Art Unit: 2631

Filed: August 25, 2003

Examiner:

Confirmation No.: 2135

Title: START UP CIRCUIT FOR DELAY LOCKED LOOP

CERTIFICATE OF MAILING OR TRANSMISSION	
I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, or is being facsimile transmitted to the United States Patent and Trademark Office on:	
<u>1/20/04</u> Date	<u>Pamela Sarno</u> Signature
<u>PAMELA SARNO</u> Typed or printed name of person signing certificate	

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

This Information Disclosure Statement is submitted:

☐ under 37 CFR 1.129(a), or  
(First/Second submission after Final Rejection)

☒ under 37 CFR 1.97(b), or  
(Within any one of the following time periods: three months of filing national application (other than a CPA) or date of entry of the national stage in an international application; or before the mailing date of a first office action on the merits in a non-provisional application, including a CPA, or a Request for Continued Examination).

☐ under 37 CFR 1.97(c) together with either:  
☐ a Statement under 37 CFR 1.97(e), as checked below, or  
☐ a \$180.00 fee under 37 CFR 1.17(p), or  
(After the 37 CFR 1.97(b) time period, but before final action or notice of allowance, whichever occurs first)

☐ under 37 CFR 1.97(d) together with:  
☐ a Statement under 37 CFR 1.97(e), as checked below, and  
☐ a \$180.00 fee under 37 CFR 1.17(p), or  
(Filed after final action or notice of allowance, whichever occurs first, but on or before payment of the issue fee)

☐ under 37 CFR 1.97(i):  
Applicant requests that the IDS and cited reference(s) be placed in the application filewrapper.  
(Filed after payment of issue fee)

Statement Under 37 CFR 1.97(e)

- ☐ Each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement; or
- ☐ No item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned, after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of this Information Disclosure Statement.

Statement Under 37 CFR 1.704(d) (Patent Term Adjustment)

Applies to original applications (other than design) filed on or after May 29, 2000

- ☐ Each item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in § 1.56(c) more than thirty days prior to the filing of the Information Disclosure Statement.
- ☒ Enclosed herewith is form PTO-1449:
  - ☐ Copies of the cited references are enclosed.
  - ☒ Since this application was filed after June 30, 2003, copies of issued U.S. patents and published U.S. applications are not required and are not being provided.
  - ☐ Copies of the cited references are enclosed except those entered in prior application, U.S. Application No. [ ], to which priority under 35 U.S.C. 120 is claimed. [The earlier application contains copies of the cited references.]
  - ☐ The listed references were cited in the enclosed International Search Report in a counterpart foreign application.
  - ☐ The "concise explanation" requirement (non-English references) for reference(s) [ ] under 37 CFR 1.98(a)(3) is satisfied by:
    - ☐ the explanation provided on the attached sheet.
    - ☐ the explanation provided in the Specification.
    - ☐ submission of the enclosed International Search Report.
    - ☐ submission of the enclosed English-language version of a foreign Search Report and/or foreign Office Action.
    - ☐ the enclosed English language abstract.

☐ Applicant requests that the following non-published pending applications be considered:

Examiner's  
Initials

\_\_\_\_ U.S. Patent Application No. [    ], by [inventor(s)], filed [    ], Docket No.: [    ]  
\_\_\_\_ U.S. Patent Application No. [    ], by [inventor(s)], filed [    ], Docket No.: [    ]  
\_\_\_\_ U.S. Patent Application No. [    ], by [inventor(s)], filed [    ], Docket No.: [    ]

\_\_\_\_\_  
Examiner

\_\_\_\_\_  
Date

- ☐ A copy of each above-cited application, including the current claims, is enclosed.
- ☐ A copy of each above-cited application, including the current claims, is enclosed, except those entered in prior application, U.S. Application No. [    ], to which priority under 35 U.S.C. 120 is claimed.

The Examiner is requested to return a copy of the above list of pending applications indicating which references were considered with the next office communication.

It is requested that the information disclosed herein be made of record in this application.

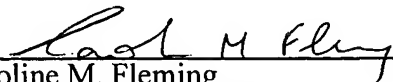
Method of payment:

- ☐ A check for the fee noted above is enclosed, or the fee has been included in the check with the accompanying Reply. A copy of this Statement is enclosed.
- ☐ Please charge Deposit Account 08-0380 in the amount of \$[    ]. A copy of this Statement is enclosed.
- ☒ Please charge any deficiency in fees and credit any overpayment to Deposit Account 08-0380.

Respectfully submitted,

HAMILTON, BROOK, SMITH & REYNOLDS, P.C.

By

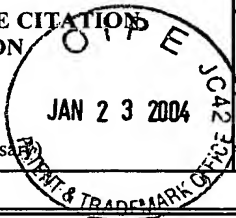


Caroline M. Fleming  
Registration No.: 45,566  
Telephone: (978) 341-0036  
Facsimile: (978) 341-0136

Concord, MA 01742-9133

Dated: 1/26/04

PTO-1449 REPRODUCED		ATTORNEY DOCKET NO. 2037.2038-001	APPLICATION NO. 10/647,664	
<b>INFORMATION DISCLOSURE CITATION IN AN APPLICATION</b>  <b>January 9, 2004</b>  (Use several sheets if necessary)		FIRST NAMED INVENTOR Tony Mai		FILING DATE August 25, 2003
		EXAMINER	CONFIRMATION NO. 2135	GROUP 2631



## U.S. PATENT DOCUMENTS

EXAM- INER INI- TIAL	REF. NO.	DOCUMENT NUMBER Number-Kind Code (if known)	ISSUE DATE / PUBLICATION DATE MM-DD-YYYY	NAME OF PATENTEE OR APPLICANT OF CITED DOCUMENT
	AA	6,314,052 B2	11/06/01	Foss <i>et al.</i>
	AB	6,314,150 B1	11/06/01	Vowe
	AC	6,330,296 B1	12/11/01	Atallah <i>et al.</i>
	AD	6,337,590 B1	01/08/02	Miller
	AE	6,448,820 B1	09/10/02	Wang <i>et al.</i>
	AF	6,549,041 B2	04/15/03	Waldrop
	AG			
	AH			
	AI			
	AJ			
	AK			
	AA2			
	AB2			
	AC2			
	AD2			
	AE2			
	AF2			
	AG2			
	AH2			
	AI2			
	AJ2			
	AK2			
	AA3			
	AB3			
	AC3			

EXAMINER	DATE CONSIDERED
----------	-----------------

PTO-1449 REPRODUCED		ATTORNEY DOCKET NO. 2037.2038-001	APPLICATION NO. 10/647,664	
<b>INFORMATION DISCLOSURE CITATION IN AN APPLICATION</b>  January 9, 2004 (Use several sheets if necessary)		FIRST NAMED INVENTOR Tony Mai		FILING DATE August 25, 2003
		EXAMINER	CONFIRMATION NO. 2135	GROUP 2631

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

AR	C.H. Kim <i>et al.</i> "A 64 Mbit, 640 Mbyte/s bidirectional Data Strobed, Double-Data-Rate SDRAM with a 40-mW DLL for a 256-Mbyte System", <i>IEEE J. Solid State Circuits</i> , 33(11), November 1998.
AS	Hsiang-Hui Chang <i>et al.</i> "A Wide Range Delay-Locked Loop With a Fixed Latency of One Clock Cycle", <i>IEEE J. Solid State Circuits</i> , 37(8), August 2002.
AT	Hongil Yoon <i>et al.</i> "A 2.5V, 333-Mb/s/pin, 1-Gbit, Double-Data-Rate Synchronous DRAM", <i>IEEE J. Solid State Circuits</i> , 34(11), November 1999.
AU	Se Jun Kim, <i>et al.</i> "A low-Jitter Wide-Range Skew-Calibrated Dual-Loop DLL Using Antifuse Circuitry for High-Speed DRAM", <i>IEEE J. Solid State Circuits</i> , 37(6), June 2002.
AV	
AW	
AX	
AY	
AZ	
AR2	
AS2	
AT2	
AU2	
AV2	
AW2	
AX2	

EXAMINER	DATE CONSIDERED
----------	-----------------